

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in this application.

1. (Original) A method for treating anxiety comprising: preparing modified trimethylglycine and cofactors by subjecting said trimethylglycine and cofactors to laser radiation; and ingesting an effective amount of said modified trimethylglycine and cofactors.
2. (Original) The method for treating anxiety according to claim 1, wherein said method comprises consuming at least 2 grams of modified trimethylglycine and cofactors daily.
3. (Original) The method for treating anxiety according to claim 1, wherein said method comprises consuming at least 4 grams of modified trimethylglycine and cofactors daily.
4. (Original) The method for treating anxiety according to claim 1, wherein said method comprises consuming at least 6 grams of modified trimethylglycine and cofactors daily.
5. (Original) The method for treating anxiety according to claim 1, wherein the method comprises forming said modified trimethylglycine and cofactors by exposure to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said trimethylglycine and cofactors and said laser radiation is structured in polarization and wave patterns.
6. (Original) A method for treating depression comprising: preparing modified trimethylglycine and cofactors by subjecting said trimethylglycine and cofactors to laser radiation; and ingesting an effective amount of said modified trimethylglycine and cofactors.
7. (Original) The method for treating depression according to claim 6, wherein said method comprises consuming at least 2 grams of modified trimethylglycine and cofactors daily.
8. (Original) The method treating depression according to claim 6, wherein said method comprises consuming at least 4 grams of modified trimethylglycine and cofactors daily.
9. (Original) The method for treating depression according to claim 6, wherein said method comprises consuming at least 6 grams of modified trimethylglycine and cofactors daily.

10. (Original) The method for treating depression according to claim 6, wherein the method comprises forming said modified trimethylglycine and cofactors by exposure to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said trimethylglycine and cofactors and said laser radiation is structured in polarization and wave patterns.

11. (Original) A method for treating obsessive-compulsive symptoms comprising: preparing modified trimethylglycine and cofactors by subjecting said trimethylglycine and cofactors to laser radiation; and ingesting an effective amount of said modified trimethylglycine and cofactors.

12. (Original) The method for treating obsessive-compulsive symptoms according to claim 11, wherein said method comprises consuming at least 2 grams of modified trimethylglycine and cofactors daily.

13. (Original) The method for treating obsessive-compulsive symptoms according to claim 11, wherein said method comprises consuming at least 4 grams of modified trimethylglycine and cofactors daily.

14. (Original) The method for treating obsessive-compulsive symptoms according to claim 11, wherein said method comprises consuming at least 6 grams of modified trimethylglycine and cofactors daily.

15. (Original) The method for treating obsessive-compulsive symptoms according to claim 11 wherein the method comprises forming said modified trimethylglycine and cofactors by exposure to laser radiation with an amplitude modulation at resonance frequency of one or more acoustic vibration frequencies of said trimethylglycine and cofactors and said laser radiation is structured in polarization and wave patterns.

16. (Original) A method for treating paranoia comprising: preparing modified trimethylglycine and cofactors by subjecting said trimethylglycine and cofactors to laser radiation; and ingesting an effective amount of said modified trimethylglycine.

17. (Original) The method for treating paranoia according to claim 16, wherein said method comprises consuming at least 2 grams of modified trimethylglycine and cofactors daily.

18. (Original) The method for treating paranoia according to claim 16, wherein said method comprises consuming at least 4 grams of modified trimethylglycine and cofactors daily.

19. (Original) The method for treating paranoia according to claim 17, wherein said method comprises consuming at least 6 grams of modified trimethylglycine and cofactors daily.

20. (Original) The method for treating paranoia according to claim 16, wherein the method comprises forming said modified trimethylglycine and cofactors by exposure to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said trimethylglycine and cofactors and said laser radiation is structured in polarization and wave patterns.

21. (Original) A method for treating hostility comprising: preparing modified trimethylglycine and cofactors by subjecting said trimethylglycine and cofactors to laser radiation; and ingesting an effective amount of said modified trimethylglycine and cofactors.

22. (Original) The method for treating hostility according to claim 21, wherein said method comprises consuming at least 2 grams of modified trimethylglycine and cofactors daily.

23. (Original) The method for treating hostility according to claim 21, wherein said method comprises consuming at least 4 grams of modified trimethylglycine and cofactors daily.

24. (Original) The method for treating hostility according to claim 21, wherein said method comprises consuming at least 6 grams of modified trimethylglycine and cofactors daily.

25. (Original) The method for treating hostility according to claim 21, wherein the method comprises forming said modified trimethylglycine and cofactors by exposure to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said trimethylglycine and cofactors and said laser radiation is structured in polarization and wave patterns.

26. (Original) A method for treating perceptions of bodily distress, aches, and pains comprising: preparing modified trimethylglycine and cofactors by subjecting said

trimethylglycine and cofactors to laser radiation; and ingesting an effective amount of said modified trimethylglycine and cofactors.

27. (Original) The method for treating perceptions of bodily distress, aches, and pains according to claim 26, wherein said method comprises consuming at least 2 grams of modified trimethylglycine and cofactors daily.

28. (Original) The method for treating perceptions of bodily distress, aches, and pains according to claim 26, wherein said method comprises consuming at least 4 grams of modified trimethylglycine and cofactors daily.

29. (Original) The method for treating perceptions of bodily distress, aches, and pains according to claim 26, wherein said method comprises consuming at least 6 grams of modified trimethylglycine and cofactors daily.

30. (Original) The method for treating perceptions of bodily distress, aches, and pains according to claim 26, wherein the method comprises forming said modified trimethylglycine and cofactors by exposure to laser radiation with an amplitude modulation at resonance frequency of one or more acoustic vibration frequencies of said trimethylglycine and cofactors and said laser radiation is structured in polarization and wave patterns.

31. (Withdrawn) A method for treating autoimmune disorders comprising: preparing modified betaine and cofactors by subjecting said betaine and cofactors to laser radiation; and ingesting an effective amount of said modified betaine and cofactors.

32. (Withdrawn) The method for treating autoimmune disorders according to claim 31, wherein said method comprises consuming at least 6 grams of laser treated betaine plus cofactors daily for an induction period of 2-3 months, followed by a maintenance dose of 1-2 grams of said laser treated betaine plus cofactors daily to be maintained or adjusted based on clinical or biochemical response.

33. (Withdrawn) The method for treating autoimmune disorders according to claim 31, wherein the method comprises forming said modified betaine plus cofactors by exposure to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said betaine plus cofactors and said laser radiation is structured in polarization and wave pattern.

34. (Withdrawn) A method for modifying amino acids to reduce the immune reaction to said amino acids, as would be beneficial to provide systemic and tissue amino acids in

inflammatory, autoimmune, and allergic conditions, comprising: preparing modified amino acids by subjecting said amino acids to laser radiation; and ingesting an effective amount of said modified amino acids.

35. (Withdrawn) The method for modifying amino acids to reduce the immune reaction to said amino acids according to claim 34, wherein the method comprises forming said modified amino acids by exposure to laser radiation with an amplified modulation at a resonance frequency of one or more acoustic vibration frequencies of said amino acids and said laser radiation is structured in polarization and wave pattern.

36. (Withdrawn) A method for modifying amino acids to reduce inflammation, through reducing inflammatory cytokine production in response to said amino acids comprising: preparing modified amino acids by subjecting said amino acids to laser radiation; and ingesting an effective amount of said modified amino acids.

37. (Withdrawn) The method for modifying amino acids to reduce inflammation, through reducing inflammatory cytokine production, according to claim 36, wherein the method comprises forming said modified amino acids by exposure to laser radiation with an amplitude modification at a resonance frequency of one or more acoustic vibration frequencies of said amino acids and said laser radiation is structured in polarization and wave pattern.

38. (Withdrawn) A method for improving the quality of crystal formation through increased homogeneity of unit cell elements or reduced defects in the crystal lattice, or both, comprising: selecting the molecular species to be crystallized; and subjecting said molecular species to laser radiation during the process of crystallization.

39. (Withdrawn) The method for improving the quality of crystal formation through increased homogeneity of unit cell elements or reduced crystal defects or both according to claim 38, wherein the method comprises subjecting the selected molecular species, during the crystallization process, to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said molecular species, and said laser radiation is structured in polarization and wave patterns.

40. (Withdrawn) A method for improving the quality of crystals that have already solidified through homogenizing unit cell elements and/or liberating trapped water in the crystal lattice comprising: selecting the crystal form to be homogenized and/or dried; and subjecting said crystal form to laser radiation.

41. (Withdrawn) The method for improving the quality of crystals that have already solidified through homogenizing unit cell elements and/or drying according to claim 40, wherein the method comprises subjecting said selected crystal form to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of the molecular species of said selected crystal form, and said laser radiation is structured in polarization and wave patterns.

42. (Withdrawn) A method for generating highly crystalline and homogeneous simvastatin comprising: dissolving simvastatin in a solvent and subjecting said simvastatin to laser radiation during the crystallization process.

43. (Withdrawn) The method for generating highly crystalline and homogeneous simvastatin according to claim 42, wherein the method comprises dissolving said simvastatin in a solvent and subjecting said simvastatin to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said simvastatin, and said laser radiation is structured in polarization and wave patterns.

44. (Withdrawn) A method for generating amorphous simvastatin comprising: dissolving simvastatin in a solvent and subjecting said simvastatin to laser radiation during the crystallization process.

45. (Withdrawn) The method for generating amorphous simvastatin according to claim 44, wherein the method comprises dissolving said simvastatin in ethanol or another solvent and subjecting said simvastatin to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said simvastatin, and said laser radiation is structured in polarization and wave patterns.

46. (Withdrawn) A method for modifying the activity of an enzyme, substrate, or ligand, the method comprising: selecting an enzyme, substrate, or ligand to be modified; and subjecting said enzyme, substrate, or ligand to laser irradiation to modify the structure thereof.

47. (Withdrawn) The method for modifying the activity of an enzyme, substrate, or ligand according to claim 46, wherein the method comprises selecting an enzyme, substrate, or ligand to be modified; and subjecting said enzyme, substrate or ligand to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said enzyme, substrate or ligand to modify the structure thereof, and said laser radiation is structured in polarization and wave patterns.

48. (Withdrawn) A method of increasing the depth of penetration of laser electromagnetic signals and energy through tissue to enhance the depth and range of therapeutic efficiency of photodynamic therapy, this method comprising: identifying a condition in tissue that may be responsive to photodynamic therapy; and determining a suitable photodynamic compound, photoactivating laser wavelength, and laser radiation dose to use for treatment of said condition; and administering said photodynamic compound and allowing sufficient time for accumulation of said compound in said tissue to be treated; and applying a sufficient dose of sparse constructive nodes of laser radiation to the tissue to be treated via external beam, endoscopically, endarterially or other route as appropriate, with said laser radiation having an amplitude modulation at a resonant frequency of one or more acoustic vibration frequencies of said photodynamic compound, and said laser radiation is structured in polarization and wave pattern.

49. (Withdrawn) A method of homogenizing, flattening, and reducing the distortion of backbone twist of aromatic amino acids and L-dopa, and any other dopaminergic, catecholaminergic, or serotonergic precursor, compound, or pharmaceutical agent to enhance the bioavailability of the modified molecular structure, the method comprising: selecting the dopaminergic, catecholaminergic, or serotonergic precursor, compound, or pharmaceutical agent to be modified; and treating said dopaminergic, catecholaminergic, or serotonergic precursor, compound, or pharmaceutical agent with laser radiation.

50. (Withdrawn) The method of homogenizing, flattening, and reducing the distortion of backbone twist distortion of aromatic amino acids and any other dopaminergic, catecholaminergic, or serotonergic precursor, compound, or pharmaceutical agent to enhance the bioavailability of the modified molecular structure according to claim 49, wherein said method comprises selecting a dopaminergic, catecholaminergic, or serotonergic precursor, compound or pharmaceutical agent to be modified; and treating said dopaminergic, catecholaminergic, or serotonergic precursor, compound or pharmaceutical agent with laser radiation, with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said precursor, compound or pharmaceutical agent, and said laser radiation is structured in polarization and wave pattern.

51. (Withdrawn) A method of homogenizing, flattening, and reducing the distortion of backbone twist of a nutrient, pharmaceutical agent, or other bioactive substance to enhance the bioavailability of the modified substance, the method comprising: selecting a nutrient,

pharmaceutical agent, or other bioactive substance to modify; and treating said nutrient, pharmaceutical agent, or other bioactive substance with laser radiation.

52. (Withdrawn) The method of homogenizing, flattening, and reducing the distortion of backbone twist of a nutrient, pharmaceutical agent, or other bioactive substance to enhance the bioavailability of the modified substance according to claim 51, wherein said method comprises selecting a nutrient, pharmaceutical agent, or other bioactive substance to modify; and treating said nutrient, pharmaceutical agent, or other bioactive substance with laser radiation with an amplitude modulation at a resonant frequency at one or more acoustic vibration frequencies of said nutrient, pharmaceutical agent, or other bioactive substance, and said laser radiation is structured in polarization and wave patterns.

53. (Withdrawn) A method for increasing the bioavailability of nucleic acid bases, nucleosides or deoxynucleosides, or nucleotide or deoxynucleotide monophosphates, diphosphates, or triphosphates, the method comprising: selecting a nucleic acid base, nucleoside or deoxynucleoside, or nucleotide or deoxynucleotide monophosphate, diphosphate, or triphosphate; and subjecting said selected substance to laser radiation to modify the structure thereof.

54. (Withdrawn) The method for increasing the bioavailability of nucleic acid bases, nucleosides or deoxynucleosides, or nucleotide or deoxynucleotide monophosphates, diphosphates, or triphosphates according to claim 53, wherein the method comprises selecting a nucleic acid base, nucleoside or deoxynucleoside, or nucleotide or deoxynucleotide monophosphate, diphosphate, or triphosphate to modify; and subjecting said nucleic acid base, nucleoside or deoxynucleoside, or nucleotide or deoxynucleotide monophosphate, diphosphate, or triphosphate to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said nucleic acid base, nucleoside or deoxynucleoside, or nucleotide or deoxynucleotide monophosphate, diphosphate, or triphosphate, and said laser radiation is structured in polarization and wave patterns.

55. (Withdrawn) A method of increasing the bioactivity of high energy phosphates of nucleotides or deoxynucleotides, the method comprising: selecting a nucleotide or deoxynucleotide to modify; and subjecting said nucleotide or deoxynucleotide to laser radiation.

56. (Withdrawn) The method of increasing the bioactivity of high energy phosphates of nucleotides or deoxynucleotides according to claim 55, wherein the method comprises selecting a nucleotide or deoxynucleotide to modify; and subjecting said nucleotide or deoxynucleotide to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of high energy phosphates of said nucleotide or deoxynucleotide, and said laser radiation is structured in polarization and wave pattern.

57. (Withdrawn) A method of increasing the bioavailability of a nucleic acid base, nucleoside or deoxynucleoside, or nucleotide or deoxynucleotide monophosphate, diphosphate, or triphosphate whether or not it has been modified with laser treatment according to claim 128, the method comprising: making a solution of said nucleic acid base, nucleoside, or nucleotide monophosphate, diphosphate, or triphosphate with a concentration at least 10 times that of blood plasma; and applying said solution for at least 30 seconds to oral or other nonintestinal mucosa for direct transmucosal absorption to overcome the extensive degradation of nucleic acid elements as occurs in intestinal mucosa.

58. (Withdrawn) A method for amplifying or modifying the production or purification of a selected stereoisomer or epimer of a bioactive substance, the method comprising: selecting the stereoisomer to amplify or modify; and subjecting said stereoisomer or epimer to rotationally polarized laser light, with an amplitude modulation at a resonance frequency at one or more acoustic vibration frequencies of said stereoisomer or epimer, and said laser radiation is structured in polarization and wave pattern.

59. (Withdrawn) A method of reshaping prions or other pathogenic proteins to reduce their pathogenicity, said method comprising: selecting a prion or other pathogenic protein to reshape; and subjecting said prion or other pathogenic protein to laser radiation.

60. (Withdrawn) The method of reshaping prions or other pathogenic proteins to reduce their pathogenicity according to claim 59, wherein said method comprises selecting a prion or other pathogenic protein to reshape; and subjecting said prion or other pathogenic protein to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said prion or other pathogenic protein, and said laser radiation is structured in polarization and wave pattern.

61. (Withdrawn) The method of reshaping prions or other pathogenic proteins to reduce their pathogenicity according to claim 60, wherein said method comprises selecting a prion or other pathogenic protein to reshape; and determining the peak absorption frequencies

of said prions or other pathogenic proteins and their nonpathogenic counterparts using sonoluminescence with CO₂ nucleation absorption spectrum analysis or other spectroscopic method or mathematical modeling; and subjecting said prions or other pathogenic proteins to laser radiation with an amplitude modulation of one or more peak absorption frequencies of normal protein, the pathogenic protein, or the differential absorption pattern between the normal and pathogenic counterpart protein to reshape said prions or other pathogenic proteins to reduce their pathogenicity, and said laser radiation is structured in polarization and wave patterns.

62. (Withdrawn) A method of reshaping pathogenic substances or components of infectious pathogens to reduce their pathogenicity, said method comprising: selecting a pathogenic substance or one or more components of an infectious pathogen to reshape; and subjecting said pathogenic substance or one or more components of said infectious pathogen to laser radiation.

63. (Withdrawn) The method of reshaping pathogenic substances or components of infectious pathogens to reduce their pathogenicity according to claim 62, wherein said method comprises selecting a pathogenic substance or one or more components of an infectious pathogen to reshape; and subjecting said pathogenic substance or one or more components of said infectious pathogen to laser radiation, with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said pathogenic substance or of one or more components of said infectious pathogen, and said laser radiation is structured in polarization and wave pattern.

64. (Withdrawn) The method of reshaping pathogenic substances or components of infectious pathogens to reduce their pathogenicity according to claim 63, wherein said method comprises selecting a pathogenic substance or one or more components of an infectious pathogen to reshape; and determining the peak absorption frequencies of said pathogenic substance or one or more components of said infectious pathogen using sonoluminescence with CO₂ nucleation absorption spectrum analysis or other spectroscopic method or mathematical modeling; and subjecting said pathogenic substance or one or more components of said infectious pathogen to laser radiation, with an amplitude modulation of one or more peak absorption frequencies of said pathogenic substance or of one or more components of said infectious pathogen, and said laser radiation is structured in polarization and wave pattern.

65. (Withdrawn) A method of selectively activating specific regions of selected molecules to increase the production of desired products in a chemical reaction, to generate novel reaction sequences for products, or to generate the production of novel products with specific molecular shapes, properties, and activities, said method comprising: selecting one or more molecular species to modify; and subjecting said molecular species to laser radiation.

66. (Withdrawn) The method of selectively activating specific regions of selected molecules to increase the production of desired products in a chemical reaction, to generate novel reaction sequences for products, or to generate the production of novel products with specific molecular shapes, properties, and activities according to claim 65, wherein said method comprises selecting one or more molecular species to modify; and subjecting said molecular species to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said molecular species, and said laser radiation is structured in polarization and wave pattern.

67. (Withdrawn) The method of selectively activating specific regions of selected molecules to increase the production of desired products in a chemical reaction, to generate novel reaction sequences for products, or to generate the production of novel products with specific molecular shapes, properties, and activities according to claim 66, wherein said method comprises selecting one or more molecular species to modify; and determining the peak absorption frequencies of said specific regions of selected molecular species to be modified using sonoluminescence with CO₂ nucleation absorption spectrum analysis, other spectrographic method, or through mathematical molecular modeling; and subjecting said molecular species to laser radiation with an amplitude modulation of one or more peak absorption frequencies of said molecular species, and said laser radiation is structured on polarization and wave pattern.

68. (Withdrawn) A method of selectively activating molecular species or specific regions of molecular species to generate a signal for qualitative or quantitative detection or analysis, said method comprising: selecting a specific molecular species or region of a molecular species to activate through resonance; and subjecting said molecular species to laser radiation with an amplitude modulation at a resonance frequency of one or more acoustic vibration frequencies of said molecular species, and said laser radiation is structured in polarization and wave pattern.

69. (Withdrawn) The method of selectively activating molecular species or specific regions of molecular species to generate a signal for qualitative or quantitative detection or analysis according to claim 68, wherein said method comprises selecting a specific molecular species or region of a molecular species to activate through resonance; and determining the peak absorption frequencies of said specific molecular species or region of a molecular species using sonoluminescence with CO₂ nucleation absorption spectrum analysis, other spectrographic method, or through mathematical molecular modeling; and subjecting said molecular species to laser radiation with an amplitude modulation of one or more peak absorption frequencies of said molecular species, and said laser radiation is structured in polarization and wave pattern.

70. (new) A method of treating a patient in need of treatment, the method comprising subjecting at least one compound used in the treatment to sparse constructive nodes of laser radiation, and administering the compound subjected to the laser radiation to the patient.